

Recombinant Mouse FGF-9 Protein

Catalog No.: RP01840LQ **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Mouse | 14180 | P54130 |

Tags

No-tag

Synonyms

Fibroblast growth factor 9; FGF-9; Glia-activating factor; GAF; HBGF-9; Fgf9; Fgf-9

Product Information

| Source | Purification |
|----------------|-----------------------------------|
| <i>E. coli</i> | ≥ 90 % as determined by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 23.41 kDa | 25-30 kDa |

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution of solution of 20mM Tris-HCl, 250mM NaCl, 1mM EDTA, 20% Glycerol, 1mM DTT, pH 8.5

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Fibroblast growth factor 9 is also known as FGF9, GAF, HBFG-9, SYNS3, and is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF9 is also a mitogen for oligodendrocyte type 2 astrocyte progenitor cells, smooth muscle cells, pheochromocytoma PC12 cells, and BALB/3T3 fibroblasts. However, unlike FGF acidic and basic, FGF9 has no effect on human umbilical vein endothelial cells, and it has been demonstrated that FGF9 binds preferentially to the IIIc form of FGFR3. Although no typical signal sequence was found in FGF9, it is secreted efficiently after synthesis not in a conventional manner. In nervous system, FGF9 is produced mainly by neurons and may play an important role in CNS development. FGF9 has been shown to interact with Fibroblast growth factor receptor 3.

Basic Information

Description

Recombinant Mouse FGF-9 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Ser208) of Mouse FGF-9 (Accession #NP_038546.2) fused with NO-tag.

Bio-Activity

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 2.52-10.06 ng/mL, corresponding to a specific activity of 9.94×10⁴~3.97×10⁵ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

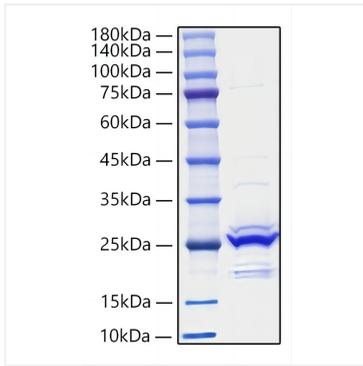
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

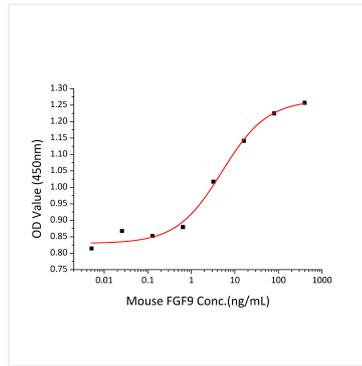
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse FGF-9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse FGF-9 Protein promotes proliferation of BALB/3T3 mouse fibroblasts cells. The ED₅₀ for this effect is 2.52-10.06 ng/mL, corresponding to a specific activity of $9.94 \times 10^4 \sim 3.97 \times 10^5$ units/mg.